|  |  |
| --- | --- |
| Matter | Anything that has mass and takes up space |
| Properties | Characteristics used to describe a substance |
| Gas | Phase of matter that has no definite shape or volume |
| Liquid | Phase of matter with a definite volume and no definite shape |
| phase | form of matter |

|  |  |
| --- | --- |
| solid | phase of matter with a definite shape and volume |
| condensation | change from a liquid to a gas |
| evaporation | change from a liquid to a gas at the surface of the liquid |
| freezing | change from a liquid to a solid |
| melting | change from a solid to a liquid |

|  |  |
| --- | --- |
| chemical change | change that produces a new substance |
| physical change | change that does NOT produce a new substance |
| physical properties of matter | phase, mass, weight, volume, density, shape, size, taste, color, smell, texture |
| intensive property | does not depend on the amount of a substance |
| extensive property | depends on the amount of a substance |

|  |  |
| --- | --- |
| indicators of chemical change | heat, light, color change, gas, rust |
| endothermic | to take in heat |
| exothermic | to give off heat |
| irreversible | can not be changed back |
| reversible | can be changed back |

|  |  |
| --- | --- |
| observation | made with the 5 sense |
| measure | compare an unknown value with a known value |
| infer | a conclusion based on facts without making an observation |
| classify | group things based on how they are a alike |
| organize | work in an orderly way |

|  |  |
| --- | --- |
| predict | state ahead of time what you think will happen |
| hypothesize | state or suggest a solution to a problem |
| model | use a copy of what you are studying to try to understand it |
| analyze | study information carefully |
| data | information |

|  |  |
| --- | --- |
| volume | amount of space something takes up |
| mass | amount of matter in an object |
| temperature | how hot or cold something is |